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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,141	04/15/2004	Klaus E. Schauser	CTX-092	3140
71003 Goodwin Procte	7590 03/30/200 er LLP	EXAMINER		
Exchange Place	<b>;</b>	KIM, PAUL		
Boston, MA 02	109		ART UNIT	PAPER NUMBER
			2169	
			MAIL DATE	DELIVERY MODE
			03/30/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicatio	n No.	Applicant(s)				
Office Action Summary		10/709,14		SCHAUSER ET AL.				
		Examiner		Art Unit				
		PAUL KIM		2169				
	The MAILING DATE of this communication	n appears on the	cover sheet with the c		dress			
Period fo	r Reply							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by seply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	G DATE OF TH FR 1.136(a). In no eve n. eriod will apply and wil statute, cause the appli	IS COMMUNICATION  nt, however, may a reply be tim  expire SIX (6) MONTHS from cation to become ABANDONE	<b>J.</b> nely filed the mailing date of this co D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed on 1	14 January 2009	).					
· · · · · · · · · · · · · · · · · · ·		This action is no						
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/—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	6)⊠ Claim(s) <u>1-26</u> is/are rejected.							
•	7) Claim(s) is/are objected to.							
8)	Claim(s) are subject to restriction a	nd/or election re	quirement.					
Applicati	on Papers							
9) 🗌 '	The specification is objected to by the Exar	miner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for form			-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>								
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
			,					
Attachmen	t(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application								
Paper No(s)/Mail Date <u>10/15/08, 1/27/09</u> . 6) Other:								

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#### **DETAILED ACTION**

1. This Office action is responsive to the following communication: Amendment filed on 14 January 2009.

2. Claims 1-26 are pending and present for examination.

### Information Disclosure Statement

3. The information disclosure statements (IDS) submitted on 15 October 2008 and 27 January 2009 in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statements are being considered by the examiner.

## Response to Amendment

- 4. Claims 1, 2, 4-6, 11-14, 15-17, and 22-26 have been amended.
- 5. No claims have been added.
- 6. No claims have been cancelled.

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. **Claims 1-26** are rejected under 35 U.S.C. 103(a) as being unpatentable over Boss et al (U.S. Patent No. 6,329,984, hereinafter referred to as BOSS), filed on 26 November 1997 and issued on 11 December 2001, in view of Salesky et al (U.S. Patent No. 6,343,313, hereinafter referred to as SALESKY), filed on 25 March 1997, and issued on 29 January 2002.

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9. **As per independent claims 1, 14, and 26,** BOSS, in combination with SALESKY, discloses:

A bandwidth-adaptive method for synchronizing display data between a source node and a plurality of consumer nodes, the method comprising the steps of:

- (a) identifying, by a source node, a change in local display data {See BOSS, C8:L6-9, wherein this reads over "when there is a change in the number or positions of windows on the host system, detection of covered portion of shared tasks feature of the present invention is initiated"};
- (b) creating, by the source node, at least one data packet representing the change in local display data {See BOSS, C8:L21-29, wherein this reads over "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"};
- (c) receiving, by a communications service from the source node {See BOSS, Figure 3, Element 108}, metadata information identifying data packets that represent a current state of local display data following the change in local display data {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"};
- (d) receiving, by the communications service from the source node {See BOSS, Figure 3, Element 108}, at least one of the identified data packets {See BOSS, C8:L30-43, wherein this reads over "[o]nce the communication packet is transmitted to and received by the client system, a censor routine is initialized"};
- (e) selecting, by the communications service {See BOSS, Figure 3, Element 108}, <u>first and second sets of identified</u> data packets responsive to the received metadata information, the first and second sets being different from one another {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"};
- (f) transmitting, by the communications service to a <u>first</u> consumer node {See BOSS, Figure 3, Element 200}, the metadata information {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"} and the first set of <u>identified data packets</u>; and
- (g) transmitting, by the communications service to <u>a second</u> consumer node {see BOSS, Figure 3, Element 200} having a different bandwidth connection with the <u>communications service</u> than the <u>first consumer node has with the communications service</u>, the <u>metadata information and the second set of identified</u> data packet {See SALESKY, C20:L38-C21:L31, wherein this reads over "[e]ach attendee client is assigned to a class, on the basis of announced or measured characteristics of the client and its network clients" and "[c]lass 2 client might not be able to process each block, even uncompressed blocks, in which case filter 100 will discard blocks"}.

While BOSS may fail to expressly disclose a consumer node having a different bandwith connection than another consumer node, SALESKY discloses a system wherein a plurality of clients are connected to various networks with different network connection speeds. Therefore, it would have been

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obvious to one of ordinary skill in the art at the time the invention was made to modify the above invention suggested by BOSS with the invention as disclosed by SALESKY.

One of ordinary skill in the art would have been motivated to do this modification so the transmission of data packets to clients with differing network connection speeds may be managed accordingly.

10. **As per dependent claims 2, 15, 17,** BOSS, in combination with SALESKY, discloses:

The method of claim 1 further comprising receiving, <u>by the communications service</u> prior to selecting <u>a set</u> of the <u>identified</u> data packets responsive to the received metadata information, a request from a consumer node for the current state of the source node local display data {See BOSS, C7:L16-20, wherein this reads over "sensor application 107 monitors Windows system 105 to determine if there is any new task created"}.

- 11. **As per dependent claim 3,** while BOSS may not expressly disclose the repeating of "steps (a) through (d) until a request is received from a consumer node for the current state of the changing data set," it would have been obvious to one of ordinary skill in the art at the time the invention was made to iteratively repeat steps (a) through (d) so that when state of the source node changes, data packets identifying the changes may be transmitted and received.
- 12. **As per dependent claim 4,** BOSS, in combination with SALESKY, discloses:

The method of claim 3 wherein selecting <u>a set</u> of the <u>identified</u> data packets responsive to the received metadata information comprises:

- (e-a) selecting one of the metadata information received by the communications service {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}; and
- (e-b) selecting at least one of the data packets received by the communications service and identified by the selected metadata information {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.
- 13. **As per dependent claim 5,** BOSS, in combination with SALESKY, discloses:

The method of claim 1 wherein selecting <u>a set</u> of the <u>identified</u> data packets responsive to the received metadata information comprises selecting a plurality of the <u>identified</u> data packets responsive to the received metadata information {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

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14. **As per dependent claim 6,** BOSS, in combination with SALESKY, discloses:

The method of claim 5 wherein transmitting to the <u>first</u> consumer node the <u>first set of identified</u> data packet comprises transmitting to the <u>first</u> consumer node <u>a first plurality</u> of data packets {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"} <u>selected therefore</u>, and wherein transmitting to the <u>second consumer node the second set of identified data packets comprises transmitting to the second consumer node a second plurality of data packets selected therefor.</u>

- 15. **As per dependent claim 7,** while BOSS may not expressly disclose the method step of receiving from the source node at least one of the identified data packets in encrypted form, it would have been obvious to one of ordinary skill in the art at the time the invention was made to encrypt data packets so that said packets may be transmitted in secure form.
- 16. As per dependent claims 8 and 22, BOSS, in combination with SALESKY, discloses:

The method of claim 1 further comprising storing the metadata information received by the communications service in a memory device {See BOSS, Figure 13a-c}.

17. **As per dependent claims 9 and 20,** BOSS, in combination with SALESKY, discloses:

The method of claim 1 further comprising storing at least one of the data packets received by the communications service in a memory device {See BOSS, Figure 13a-c}.

18. **As per dependent claims 10 and 16,** BOSS, in combination with SALESKY, discloses:

The method of claim 9 further comprising:

- selecting at least one of the stored data packets responsive to the metadata information received by the communications service {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.
- 19. **As per dependent claim 11,** BOSS, in combination with SALESKY, discloses:

The method of claim 10 where step (g) comprises:

- (g-a) transmitting to the consumer node the selected at least one of the received data packets {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"}; and
- (g-b) transmitting to the consumer node the selected at least one of the stored data packets {See BOSS, C8:L44-46, wherein this reads over "[i]f the window in the communication packet examined belongs to a shared task, then in block 370 the window region is added to the shared region"}.

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20. **As per dependent claim 12,** BOSS, in combination with SALESKY, discloses:

The method of claim 1 further comprising storing, in a memory element, information identifying <u>a</u> data packet transmitted to <u>one of</u> the <u>first and second</u> consumer node {See BOSS, Figure 13a-c}.

21. **As per dependent claim 13,** BOSS, in combination with SALESKY, discloses:

The method of claim 12 further comprising selecting at least one of the data packets received by the communications service responsive to the metadata information received by the communications service {See BOSS, C8:L4-29, wherein this reads over "the window in the list is marked as being shared" and "a communication packet containing the window list created in blocks 354 through 359 is sent to the client system"} and to the stored information identifying the data packet transmitted to one of the first and second the consumer node {See BOSS, C8:L44-52, wherein this reads over "the above described process between blocks 364 and 371 is repeated until there are no more windows in the communication packet"}.

22. **As per dependent claim 17,** BOSS, in combination with SALESKY, discloses:

The system of claim 15 further comprising the second consumer node, the second consumer node configured to request the current state of the source node local display data from the communications service {See BOSS, C8:L30-43, wherein this reads over "the last window in the communication packet . . . is examined"; and "the window is examined if it belongs to a shared task"}.

- 23. **As per dependent claim 19,** while BOSS may not expressly disclose that a communication service selects a first metadata packet to transmit to the first consumer node and a second metadata packet to transmit to the second consumer node, it would have been obvious to one of ordinary skill in the art at the time the invention was made that where there are more than one consumer nodes, the communication service would appropriately send each consumer node a metadata packet acknowledging the change in states of the source node since each node may having different shared tasks.
- 24. **As per dependent claim 21,** while BOSS may not expressly disclose that the memory element is a persistent storage device, it would have been obvious to one of ordinary skill in the art at the time the invention was made that a persistent storage device may be used to store transmitted data such as metadata and data packets.

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## Response to Arguments

25. Applicant's arguments with respect to claim rejections under 35 U.S.C. 102 have been considered but are most in view of the new ground(s) of rejection.

### Conclusion

26. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

27. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL KIM whose telephone number is (571)272-2737. The examiner can normally be reached on M-F, 9am - 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Tony Mahmoudi can be reached on (571) 272-4078. The fax phone number for the organization where
this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tony Mahmoudi/ Supervisory Patent Examiner, Art Unit 2169 Paul Kim Examiner, Art Unit 2169 TECH Center 2100

/pk/